



ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant: Manufacturer:	HTC Corporation No. 88, Section 3, Zhongxing Rd. Xindian Dist., New Taipei City 231, Taiwan HTC Corporation No. 88, Section 3, Zhongxing Rd. Xindian Dist., New Taipei City 231, Taiwan
Product Name:	Headset
Brand Name:	VIVE
Model No.:	2QBB100
Model Difference:	N/A
Report Number:	TERF2207001112E2
FCC ID	NM82QBB100
Date of EUT Received:	Jul. 19, 2022
Date of Test:	Jul. 19, 2022~Sep. 28, 2022
Issue Date:	Nov. 25, 2022

Approved By

Vito Pei

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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Revision History						
Report Number Revision Description Issue Date Revised By					Remark	
TERF2207001112E2	00	Original.	Nov. 16, 2022	Yi-Shan Tsai		
TERF2207001112E2	01	Update Brand of Adapter	Nov. 25, 2022	Yi-Shan Tsai	*	

Note:

1 . The remark "*" indicates modification of the report upon requests from certification body.

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GENERAL INFORMATION 1

1.1 **Product Description**

Product Name:	Headset
Brand Name:	VIVE
Model No.:	2QBB100
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	TE-2207000102P M1 E2 (Conducted) TE_SP_20220905591 (Conduction 、Radiated)
Power Supply:	Battery Cradle 5V 3A, 9V 1.57A, 12V 1.5A
Test Software (Name/Version)	QRCT V4.0.00163.0 (Conducted) adb tool / V6.1 & QRCT / V4.0 (Conduction 、 Radiated)

1.2 **RF** Specification

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Transmit Power:	8.81 dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	\leq 0.4s

1.3 **Antenna Designation**

Antenna	Freq.	Peak Antenna
Type	(MHz)	Gain (dBi)
Dipole	2402~2480	0.41

Note: Antenna information is provided by the applicant.

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1.4 **Test Methodology of Applied Standards**

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas. Guidance v05r02 ANSI C63.10:2013

Test Facility 1.5

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No. 124 Markung Dood New Teinei	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	T\4/0027	
	Industrial Park, Wuku District, New Taipei City, Taiwan.	Conducted 2	TW0027	TW3702
	Taiper City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No 2 Koji 1st Pd. Guisban District	Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	
	Tabydan City, Talwan 555	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 **Special Accessories**

There is no special accessory used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION 2

2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 **EUT Exercise**

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

Test Procedure 2.3

2.3.1**Conducted Emissions**

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 **Conducted Test (RF)**

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 **Radiated Emissions**

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-ane choic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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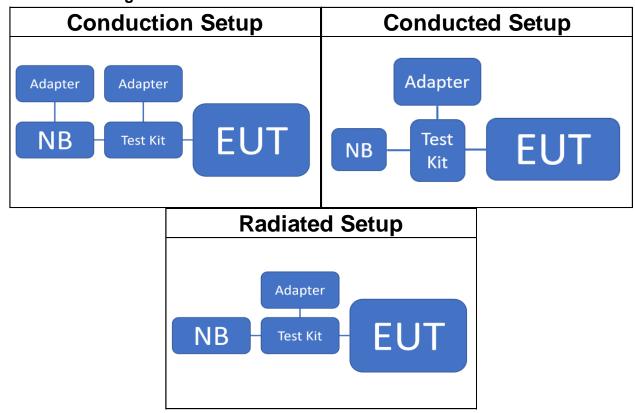
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2.5 **Test Configuration**



2.6 Control Unit(s)

	AC Powe	r-Line Conducted Emissic	on Test Site: Conduction	С	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
Adapter	Lenovo	ADLX90NLC3A	N/A	N/A	N/A
1.2M C-to-C cable	VIVE	C807M3A03E1M2	N/A	N/A	N/A
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A
	C	onducted Emission Test	Site: Conducted D		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A
Notebook	Lenovo	T420	S0012599	N/A	N/A
		Radiated Emission Te	st Site: SAC D		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emis- sion	Compliant
§15.247(b)(1)	Peak Output Power	Compliant
§15.247(a)(1)	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Conducted & Radiated Band Edge and Spurious Emission	Compliant
§15.247(a)(1)	Frequency Separation	Compliant
§15.247(a)(1)(iii)	Number of hopping frequency Time of Occupancy	Compliant
§15.203	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES 4

Operated in 2400 ~ 2483.5MHz Band 4.1

79 channels are provided for Bluetooth

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	21	2422 MHz	41	2442 MHz	71	2462 MHz
2	2403 MHz	22	2423 MHz	42	2443 MHz	72	2463 MHz
3	2404 MHz	23	2424 MHz	43	2444 MHz	73	2464 MHz
4	2405 MHz	24	2425 MHz	44	2445 MHz	74	2465 MHz
5	2406 MHz	25	2426 MHz	45	2446 MHz	75	2466 MHz
6	2407 MHz	26	2427 MHz	46	2447 MHz	76	2467 MHz
7	2408 MHz	27	2428 MHz	47	2448 MHz	77	2468 MHz
8	2409 MHz	28	2429 MHz	48	2449 MHz	78	2469 MHz
9	2410 MHz	29	2430 MHz	49	2450 MHz	79	2470 MHz
10	2411 MHz	30	2431 MHz	50	2451 MHz	70	2471 MHz
11	2412 MHz	31	2432 MHz	51	2452 MHz	71	2472 MHz
12	2413 MHz	32	2433 MHz	52	2453 MHz	72	2473 MHz
13	2414 MHz	33	2434 MHz	53	2454 MHz	73	2474 MHz
14	2415 MHz	34	2435 MHz	54	2455 MHz	74	2475 MHz
15	2416 MHz	35	2436 MHz	55	2456 MHz	75	2476 MHz
16	2417 MHz	36	2437 MHz	56	2457 MHz	76	2477 MHz
17	2418 MHz	37	2438 MHz	57	2458 MHz	77	2478 MHz
18	2419 MHz	38	2439 MHz	58	2459 MHz	78	2479 MHz
19	2420 MHz	39	2440 MHz	59	2460 MHz	79	2480 MHz
20	2421 MHz	40	2441 MHz	60	2461 MHz		

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4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3 The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
- 4 Investigation has been done on all the possible configurations for searching the worst case.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE		
RADIATED EMISSION TEST (BELOW 1 GHz)						
Bluetooth	0 to 78	39	8-DPSK	3DH5		
	RADI	ATED EMISSION TEST (AI	BOVE 1 GHz)			
Bluetooth	0 to 78	0,39,78	GFSK/8-DPSK	DH5/3DH5		

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

ANTNNA PORT CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE	
	Р	eak Output Power, 20dB Ba	and Width		
	0 to 78	0,39,78	GFSK	DH5	
Bluetooth	0 to 78	0,39,78	π/4-DQPSK	2DH5	
	0 to 78	0,39,78	8-DPSK	3DH5	
		Band Edge			
Bluetooth	0 to 78	0,78	GFSK/8-DPSK	DH5/3DH5	
		Frequency Separation	on		
Bluetooth	0 to 78	0,1,2,38,39,40,76,77,78	GFSK π/4-DQPSK 8-DPSK	DH5 2DH5 3DH5	
	Number	of Hopping Frequency, Hop	oping Band edge		
Bluetooth	0 to 78	0 to 78	GFSK/8-DPSK	DH5/3DH5	
		Time of Occupancy(Dwel	ll time)		
			GFSK	DH1/DH3/DH5	
Bluetooth	0 to 78	0 to 78 39	π/4-DQPSK	2DH1/2DH3/2DH5	
			8-DPSK	3DH1/3DH3/3DH5	

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MEASUREMENT UNCERTAINTY 5

Test Items	ι	Incertair	nty
AC Power Line Conducted Emission	+/-	2.34	dB
Output Power measurement	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
Undesignable radiated emission measurement	+/-	1.68	dB
Frequency Separation	+/-	1.53	Hz
Number of hopping frequency	+/-	1.53	Hz
Time of Occupancy	+/-	1.53	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source		1	%

Radiated Spurious Emission Measurement Uncertainty						
Polarization: Vertical	+/-	2.57	dB	9kHz~30MHz		
	+/-	4.85	dB	30MHz - 1000MHz		
	+/-	4.45	dB	1GHz - 18GHz		
	+/-	4.24	dB	18GHz - 40GHz		
	+/-	2.57	dB	9kHz~30MHz		
Delerization, Herizantel	+/-	4.37	dB	30MHz - 1000MHz		
Polarization: Horizontal	+/-	4.45	dB	1GHz - 18GHz		
	+/-	4.24	dB	18GHz - 40GHz		

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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MEASUREMENT EQUIPMENT USED 6

6.1 **Emission from AC power line**

AC Power-Line Conducted Emission Test Site: Conduction C							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
LISN	SCHWARZBECK Mess- Elektronik	NSLK8127	973	04/13/2022	04/12/2023		
EMI Test Receiver	R&S	ESCI	101342	04/25/2022	04/24/2023		
Coaxial Cable	EC La b	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2022	03/26/2023		
Pulse Limiter	EC La b	VTSD 9561F-N	485	03/27/2022	03/26/2023		
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R		

6.2 **Conducted Measurement**

Conducted Emission Test Site: Conducted D							
EQUIPMENT TYPE	QUIPMENT TYPE MFR		MODEL NUMBER SERIAL NUMBER		CAL DUE.		
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/16/2022	05/15/2023		
Power Meter	Anritsu	ML2496A	1512003	07/26/2022	07/25/2023		
Power Sensor	Anritsu	MA2411B	1339378	07/26/2022	07/25/2023		
Power Sensor	Anritsu	MA2411B	1339379	07/26/2022	07/25/2023		
Attenuator	Marvelous	WATT-218FS-10	RF16	11/18/2021	11/17/2022		
Attenuator	Marvelous	WATT-218FS-10	RF23	11/18/2021	11/17/2022		
DC Block	PASTERNACK	PE8210	RF158	11/18/2021	11/17/2022		

6.3 **Radiated Measurement**

	Radiated Emission Test Site: SAC D							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022			
Horn Antenna	Schwarzbeck	BBHA9170	185	08/22/2022	08/21/2023			
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022			
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2022	05/30/2023			
Loop Antenna	ETS.LINDGREN	6502	143303	05/14/2022	05/13/2023			
3m Site NSA	SGS	966 chamber D	N/A	04/30/2022	04/29/2023			
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/24/2022	03/23/2023			
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R			
Pre-Amplifier	EMCInstruments	EMC184045B	980135	10/27/2021	10/26/2022			
Pre-Amplifier	EMCInstruments	EMC9135	980234	11/18/2021	11/17/2022			
Pre-Amplifier	EMCInstruments	EMC12630SE	980273	11/18/2021	11/17/2022			
Attenuator	Marvelous	MVE2213-10	RF05	11/18/2021	11/17/2022			
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022			
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/18/2021	11/17/2022			
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022			

NOTE: N.C.R refers to Not Calibrated Required.

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CONDUCTED EMISSION TEST 7

7.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range		nits (uV)
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Noto		

Note

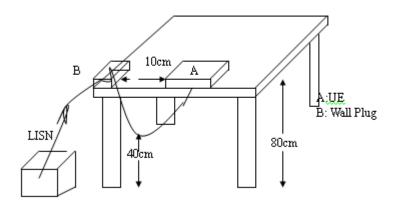
1. The lower limit shall apply at the transition frequencies

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

7.3 **Test Setup**



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f (886-2) 2298-0488



7.4 **Measurement Procedure**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

7.5 Measurement Result

Note: Refer to next page for measurement data and plots. Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF22070	01112E2	Test Sit	e :Co	nduction C	
Test Mode	:BT BR		Test Da	ate :20	22-09-28	
Power	:120V/60Hz		Temp./I	Humi. :24	.7/54	
Probe	:L1		Engine	er :Hc	ward Huang	
			Ū		Ũ	
80 Level (dBuV)					
70.0						
60.0						
50.0 24	5					
40.0		1	8			
30.0	WWW. WWWWWW	- Martin Carlow	Mundar Maria	menstran	M inte	
20.0					- W	
10.0						
0.15	0.5	1 Frequ	2 ency (MHz)	5	10 20 30	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Troq.		eading Level	1 40101	FS	Linit	margin
MHz F	PK/QP/AV	dBµV	dB	dBµV	dBμV	dB
0.152	Average	16.90	10.30	27.20	55.91	-28.71
0.152	QP	35.60	10.30	45.90	65.91	-20.01
0.163	Average	14.40	10.30	24.70	55.30	-30.60
0.163	QP	34.20	10.30	44.50	65.30	-20.80
0.274	Peak	32.77	10.30	43.07	60.98	-17.91
0.608	Peak	30.98	10.32	41.30	56.00	-14.70
1.223	Peak	27.21	10.58	37.79	56.00	-18.21
3.041	Peak	24.65	10.88	35.53	56.00	-20.47

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Report Number Test Mode Power Probe	:TERF22070 :BT BR :120V/60Hz :N	001112E2	Test Site Test Date Temp./Hum Engineer	:Conducti :2022-09- ni. :24.7/54 :Howard F	28	
80 Level (dBuV)					
70.0						
60.0						
50.0 2	4					
40.0	M. 5	6	7			
30.0	mymy	proportional	home and an	m		
20.0				•••	m m	
10.0						
0.15	0.5	1 Frequer	2 5 1cy (MHz)	10	20 30	
Freq.		Spectrum ading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dBµV	dB	dBμV	dBµV	dB
0 4 5 0		10.10	10.01	~~ = /	== 0 (~~~~
0.152	Average	16.40	10.31	26.71	55.91	-29.20
0.152 0.172	QP Peak	35.60 40.29	10.31 10.31	45.91 50.60	65.91 64.86	-20.00 -14.26
0.280	Peak	40.29 32.60	10.31	42.91	60.81	-14.20
0.608	Peak	30.00	10.33	40.34	56.00	-15.66
1.223	Peak	26.68	10.59	37.28	56.00	-18.72
3.041	Peak	24.09	10.89	34.97	56.00	-21.03

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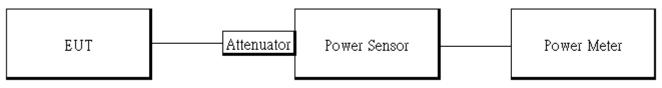


8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, The Limit: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

8.2 Test Setup



8.3 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10 Measurement Guidelines.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >=20dB bandwidth)
- 4. Record the max. reading.
- 5. Repeat above procedures until all default test channel is completed.

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Peak & Average Power Measurement Result 8.4

1M BR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	7.39	5.483	1000
Mid	2441	9	8.25	6.683	1000
High	2480	9	6.47	4.436	1000

2M EDR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	7.58	5.728	125
Mid	2441	9	8.51	7.096	125
High	2480	9	6.65	4.624	125

3M EDR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	7.94	6.223	125
Mid	2441	9	8.81	7.603	125
High	2480	9	6.98	4.989	125

NOTE: cable loss as dB that offsets in the spectrum

1M BR mode (Average):

The Diction de (Average).							
СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)		
Low	2402	9	7.32	5.391	1000		
Mid	2441	9	7.98	6.275	1000		
High	2480	9	6.32	4.282	1000		

2M EDR mode (Average):

СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	5.64	3.661	125
Mid	2441	9	6.67	4.641	125
High	2480	9	4.66	2.922	125

3M EDR mode (Average):

	· (· · · · · · · · · · · · · · · · · ·				
СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	5.67	3.693	125
Mid	2441	9	6.71	4.692	125
High	2480	9	4.63	2.907	125

*Note: Max. Output include tune up tolerance Power measured by using average detector.

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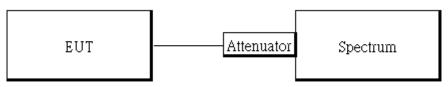


EMISSION BANDWIDTH MEASUREMENT 9

Standard Applicable 9.1

For frequency hopping systems operating in the 2400 MHz-2483.5 MHz no limit for 20dB bandwidth.

9.2 **Test Setup**



9.3 **Measurement Procedure**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set the spectrum analyzer as RBW= 1% to 5% of OBW, VBW = 3 X RBWSpan= 2 to 5 times of the OBW, Sweep=auto, Detector = Peak, and Max hold for 20dB Bandwidth test.
- 5. Mark the peak frequency and -20dB (upper and lower) frequency
- 6. Repeat above procedures until all test default channel is completed

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20dB Bandwidth 9.4

GFSK

СН	20 dB BW (MHz)	2/3 BW (MHz)
Low	0.938	0.63
Mid	0.9395	0.63
High	0.9409	0.63
-/4 D		

π/4-DQPSK

СН	20 dB BW	2/3 BW
СП	(MHz)	(MHz)
Low	1.287	0.86
Mid	1.287	0.86
High	1.306	0.87

8-DPSK

СН	20 dB BW	2/3 BW
	(MHz)	(MHz)
Low	1.302	0.87
Mid	1.302	0.87
High	1.304	0.87

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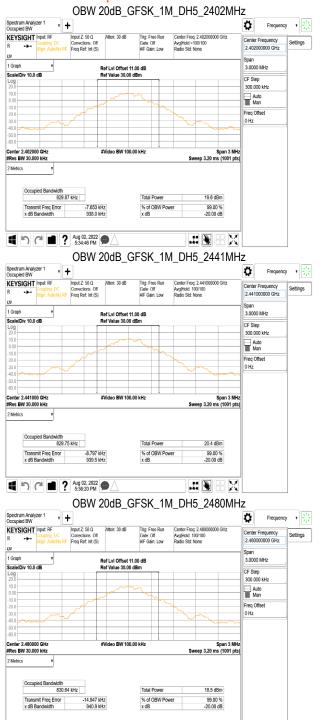
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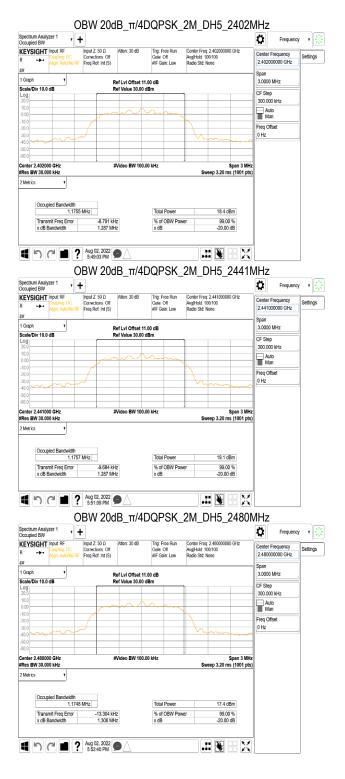
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OBW 20dB 8DPSK 3M DH5 2402MHz Spectrum Analyzer 1 + Frequency v Ö Trig: Free Run Gale: Off #IF Gain: Low Conter Freq: 2.40200000 GH: Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input RF out Z: 50 Ω Atten: 30 dB Center F Corrections: Off Froq Rof: Int (S) Settings + 2 40200000 GH L)a span 3.0000 MHz 1 Graph Ref Lvi Offset 11.00 dB Ref Value 30.00 dBm Scale/Div 10.0 rlm CF Step 300.000 kHz Auto Man Freq Offset 0 Hz #Video BW 100.00 kHz Center 2.402000 GHz #Res BW 30.000 kHz Span 3 Mi eep 3.20 ms (1001 pts) Occupied Bandwidth 1.1797 MHz Total Power 18.5 dBm Transmit Freq Error x dB Bandwidth -5.749 kHz 1.302 MHz % of OBW Power x dB 99.00 % -20.00 dB 4 ら C 目 ? Aug 02, 2022 の 5:59:30 PM # 🕷 🗄 🗙 OBW 20dB 8DPSK 3M DH5 2441MHz Spectrum Analyzer 1 Occupied BW Frequency v + Ö Trig: Froe Run Gele: Off #IF Gain: Low KEYSIGHT Input RF out Z: 50 Ω Atten: 30 dB Conter Freq: 2.441000000 GHz Avg|Hold: 100/100 Radio Std: None Center Fi Settings Corrections: Off Froq Rof: Int (S) 2.441000000 GHz L)d 1 Graph 3.0000 MHz Ref Lvi Offset 11.00 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step 300.000 kHz Auto Man Freq Offset 0 Hz Center 2.441000 GHz #Res BW 30.000 kHz BW 100.00 kHz Span 3 MHz Sweep 3.20 ms (1001 pts) Occupied Bandwidth 1.1796 MHz Total Power 19.3 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth -6.550 kHz 1.302 MHz 99.00 % -20.00 dB .# 🕃 🕂 X 4 ら C 目 ? Aug 02, 2022 の 6:01:03 PM OBW 20dB_8DPSK_3M_DH5_2480MHz Spectrum Analyzer 1 Occupied BW Frequency v + Ö KEYSIGHT Input RE Input Z: 50 Ω Carrections: Off Freq Ref: Int (S) Trig: Free Run Gale: Off #IF Gain: Low Atten: 30 dB Conter Freq: 2.480000000 GHz Avg|Hold: 100/100 Radio Std: None Center F Settings Center Frequency 2.480000000 GHz L)X 1 Graph Ref Lvi Offset 11.00 dB Ref Value 30.00 dBm 3.0000 MHz Scale/Div 10.0 dB CF Step 300.000 kHz .og Auto Man Freq Offset 0 Hz o BW 100 00 kH #Res BW 30.000 kH Span 3 MHz ep 3.20 ms (1001 pts) Occupied Bandwidth 1.1817 MHz Total Power 17.5 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB -10.806 kHz 1.304 MHz 99.00 % -20.00 dB 4 (C) C C Aug 02, 2022 の .# 🖎 🗄 🗙

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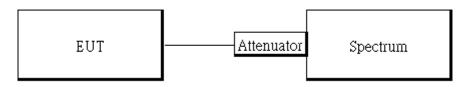


10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Test Setup



Measurement Procedure 10.3

10.3.1 **Conducted Band Edge:**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Sweep = auto
- 6. Mark Peak, 2.3999GHz and 2.4836GHz and record the max. level.
- 7. Repeat above procedures until all frequency measured were complete.

10.3.2 **Conducted Spurious Emission:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows ANSI C63.10:2013.
- Set RBW = 100 kHz & VBW = 300 kHz, Detector =Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

10.4 Measurement Result

See next page for test plots.

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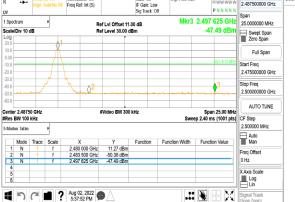
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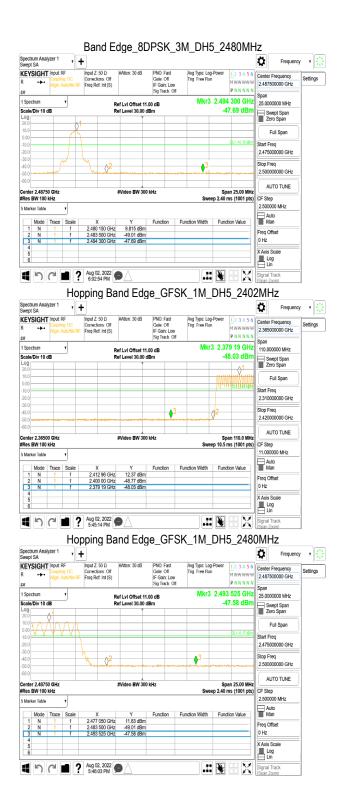
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Band Edge_8DPSK_3M_DH5_2402MHz - ... Spectrum Analyzer 1 Swept SA Ö 1+ Frequency Input Z: 50 Q KEYSIGHT Input R PN0: Fast Gate: Off IF Gain: Lo Avg Type: Log-P Trig: Free Run Settings Center F Corrections: Off Frog Rof: Int (S) 2.365000000 GH PNNN Mkr3 2.399 87 GHz 1 Spectrum Ref Lvi Offset 11.00 dB Ref Level 30.00 dBm 110.000000 MHz Scale/Div 10 dB -46.60 dB Swept Span Zero Span Full Spar Start Freq 2.310000000 GHz top Fred ŧ 2 420000000 GHz AUTO TUNE Span 110.0 MHz Sweep 10.5 ms (1001 pts) enter 2.36500 GR Res BW 100 kHz CF Step 11.000000 Auto Man Mode Trace Sca X 2.402 07 GHz 2.400 00 CV Function Function Width Function Value Y 10.23 dBr -48.65 dBr -46.60 dBr Freq Offset 0 Hz X Axis Scal 4 5 C 1 2 Aug 02, 2022 Х 1 💱



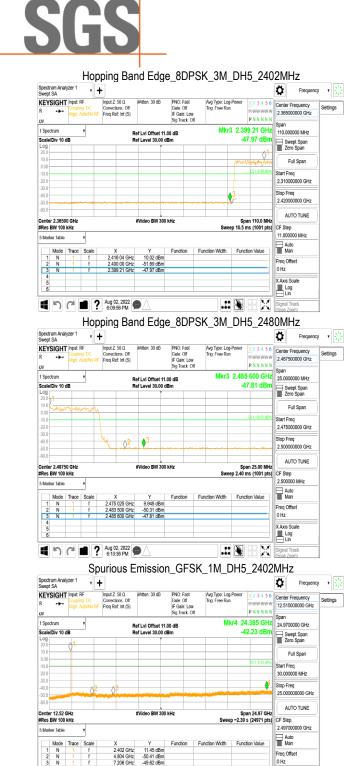
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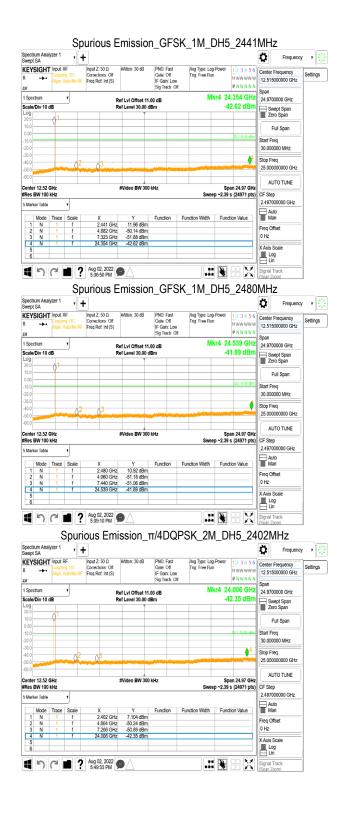
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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

Standard Applicable 11.1

11.1.1 **Duty Cycle Correction Factor**

According to 15. 35(c), the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification.

11.1.2 Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below. And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

The lower limit shall apply at the transition frequencies.

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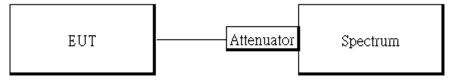
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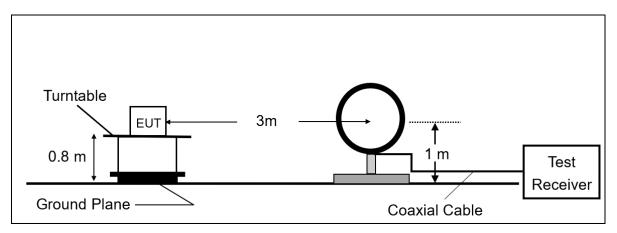
Test Setup 11.2

11.2.1 **Duty Cycle Correction Factor**

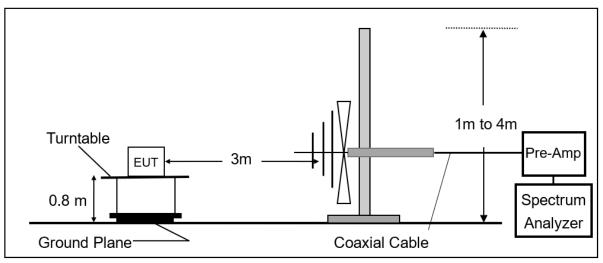


11.2.2 **Radiated Emission**

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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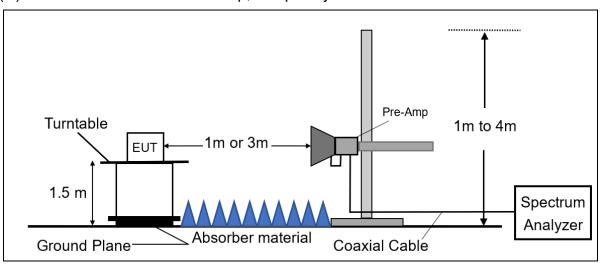
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(C) Radiated Emission Test Set-Up, Frequency Above 1 GHz.



11.3 Measurement Procedure

11.3.1 **Duty Cycle Correction Factor**

- 1.Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the "worst-case" pulse ON time.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.
- 5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz, Detector = Peak, Adjust Sweep = $2 \sim 8 \text{ms}$.
- 6. Repeat above procedures until all frequency of the interest measured were complete.

11.3.2 Radiated Emission

- The testing follows the Measurement Procedure of ANSI C63.10:2013. 1.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
- 6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.

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- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
- 8. According to C63.10:2013 Section 7.5 Procedure for determining the average value of pulsed emissions with duty cycle correction factor 20 log (Ton/100ms).
- 9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 12. Repeat above procedures until all default test channel measured were complete.

11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

The limit of the emission level is expressed in dBuV/m, which converts $20*\log(uV/m)$

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB) Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

Average value(dBµV/m)=Peak Actual FS(dBµV/m)+ Duty Cycle Correction Factor(dB) Duty Cycle Correction Factor(dB) = 20 log (Ton/100 ms)

11.5 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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11.6 **Measurement Result:**

11.6.1 **Duty Cycle Correction Factor**

BR			
Time ON of 100ms:	14.400	ms	
Duty Cycle=14.4ms / 100m	0.144	%	
Duty Cycle correction facto	r=20 LOG 0.144=	-16.83	dB
EDR			
EDR Time ON of 100ms:	11.300	ms	
		ms %	

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11.6.2 **Duty Cycle test plot**

	pectrum Analyzer										- 6
RL	RF 5	0Ω DC				Avg Ty	pe: Log-Pwr		Sep 29, 2022 1 2 3 4 5 6	Freq	uency
			PNO: Fast H IFGain:Low	#Atten: 1					PNNNNN		
0 dB/div	Ref Offset Ref 10.0						1	2.9 ۵Mkr9 0	900 ms).28 dB	A	uto Tur
og 1.00										C 0	nter Fre
nn				0.14		Δ6			9∆10		00000 GI
0.0	<u></u> 2	Δ2		3 <u>∆</u> 4	×6		_		×1ŏ	2.4070	00000 G
0.0											Start Fr
0.0									3	2.4370	00000 G
0.0				1.		-					
0.0 *****	warmen a	used her while the	hef he faith and the second second	yrihad gridler	hours 44	eneroltan.	arran and an and a start of the	velaces controls	enced here		Stop Fr
0.0											00000 GI
0.0							-				
	2.43700000	0 GHz					_		oan 0 Hz		CF St
	1.0 MHz		#VB\	V 1.0 MHz			<u> </u>	100.0 ms (1		1.0 Auto	M 00000 M
KR MODE	TRC SCL 1 t (Δ)	х	2.900 ms (Δ)	-0.04		NCTION	UNCTION WIDTH	FUNCTIO	N VALUE		
2 F	1 t		12.00 ms	-29.95 d	Bm					Er	eq Offs
3 <u>∆4</u> 4 F	1 t (Δ)		2.800 ms (Δ) 38.30 ms	-0.40 -29.59 d						- FI	010
	1 (Δ)		2.900 ms (Δ	0.46	dB				E		0
5 <u>Δ</u> 6	1 t 1 (Δ)		53.20 ms 2.900 ms (Δ	-21.79 d -2.39							
5 <u>Δ6</u> 6 F			B3.20 ms	-60.44 d						Sc	ale Ty
5 Δ6 6 F 7 Δ8 8 F	1 t										
5 <u>Δ6</u> 6 F 7 <u>Δ8</u>			2.900 ms (Δ) 94.50 ms							Log	ļ

EDR

Keysight Spectrum Analyzer - Swept SA				
RL RF 50 Ω DC Center Freq 2.437000000	0 GHz PNO: Fast ↔ Trig: Free Run	Avg Type: Log-Pwr	09:05:05 PM Sep 29, 2022 TRACE 1 2 3 4 5 6 TYPE WWWWWW	Frequency
Ref Offset 10 dB 0 dB/div Ref 10.00 dBm	IFGain:Low #Atten: 10 dB	Δ	Mkr7 2.900 ms 0.74 dB	Auto Tun
			7Δ8	Center Fre 2.437000000 GH
40.0				Start Fre 2.437000000 GH
60.0	<u>ามมาสีหรูสารการการสุด</u> 	hanghelysis Lamaanddaysaashasha	ered yangeterstations.	Stop Fre 2.437000000 GH
tenter 2.437000000 GHz tes BW 1.0 MHz	#VBW 1.0 MHz	•	Span 0 Hz 00.0 ms (1001 pts)	CF Ste 1.000000 MH Auto Ma
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.900 ms (Δ) 0.94 dB 18.40 ms -0.02 dBm 2.800 ms (Δ) -4.01 dB	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offs
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.800 ms -4.01 dB 37.30 ms -27.78 dBm 2.700 ms (Δ) 0.67 dB 63.60 ms -27.79 dBm		E	01
7 Δ8 1 t (Δ) 8 F 1 t 9 - - -	2,900 ms (Δ) 0.74 dB 82.20 ms 0.15 dBm			Scale Typ
				Log <u>Li</u>

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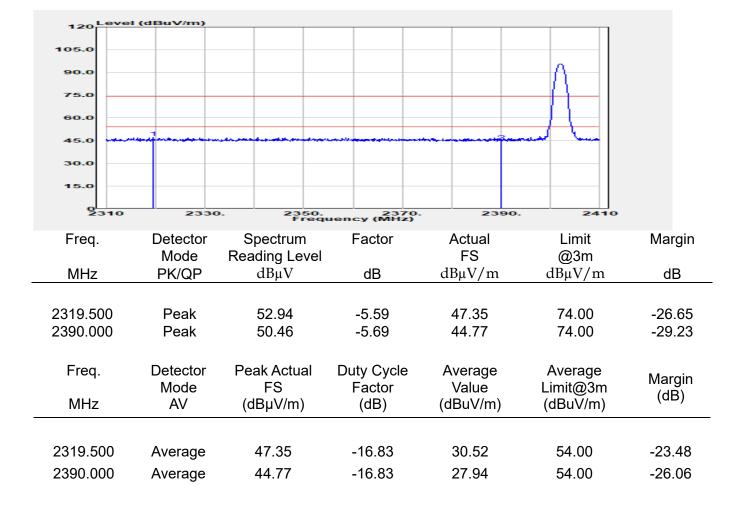
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11.6.3 Bandedge Result

Report Number	:TERF2207001112E2
Operation Mode	:BT BR
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site	:SAC D
Test Date	:2022-09-07
Temp./Humi.	:23.5/60
Antenna Pol.	:Vertical
Engineer	:Howard Huang



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:Howard Huang



Report Number	:TERF2207001112E2	Test Site	:SAC D
Operation Mode	:BT BR	Test Date	:2022-09-07
Test Frequency	:2402 MHz	Temp./Humi.	:23.5/60
Test Mode	:Bandedge	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Howard Hu

120 Level	l (dBuV/m)					
105.0					0	
90.0					$-\Lambda$	
75.0					-	
60.0					$\rightarrow \rightarrow $	
45.0	-	man marker was	· ····································	and the second		
30.0						
15.0						
2310	2330). 2350. Frequ	2370 Lency (MHz)	. 2390.	2410	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP	dBµV	dB	dBµV/m	dBµV/m	dB
2369.500	Peak	53.62	-5.61	48.01	74.00	-25.99
2390.000	Peak	51.43	-5.69	45.74	74.00	-28.26
_				_		
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	Margin
MHz	Mode AV	FS (dBµV/m)	Factor (dB)	Value (dBuV/m)	Limit@3m (dBuV/m)	(dB)
	Λ Υ					
0000 500	•	40.04				
2369.500 2390.000	Average	48.01	-16.83	31.18 28.91	54.00 54.00	-22.82 -25.09

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	e :BT BR	lz Je	-	Test Site Test Date Temp./Humi. Antenna Pol. Engineer		
120 Level (dBuV/m)					
105.0						
90.0						
75.0		\downarrow —				
60.0		\downarrow				
45.0		and the second				
30.0						
15.0						
2475	2480	. 2485. Frequ	249 Jency (MHz	0. 24	95. 2500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
ricq.	Mode	Reading Level	1 40101	FS	@3m	Wargin
MHz	PK/QP	dBµV	dB	dBµV/m	dBµV/m	dB
	_					
2483.500	Peak	52.95 54.24	-5.94	47.01	74.00	-26.99
2483.575	Peak	34.24	-5.94	48.30	74.00	-25.70
Freq.	Detector	Peak Actual	Duty Cycle	e Average	Average	
	Mode	FS	Factor	Value	Limit@3m	Margin (dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	
2483.500	Average	47.01	-16.83	30.18	54.00	-23.82
2483.575	Average	48.30	-16.83	31.47	54.00	-22.53

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Dement Numerican TEDE0007001110E0

Report Number :TERF2207001112E2			Test Site	:SAC D		
Operation Mode	tion Mode :BT BR			Test Date	:2022-09-07	
Test Frequency	′ :2480 MF	Ηz	-	Temp./Humi.	:23.5/60	
Test Mode	:Bandedo			Antenna Pol.		
EUT Pol	:E2 Plane	5		Engineer	:Howard Huang	
EUTFOI	.EZ FIAIR	5	ſ	Engineer	.nowaru nuang	
Level ((dBuV/m)					
120						
105.0						
90.0						
75.0	+/	\rightarrow				
60.0						
45.0		12		and and a star and a star of a		
30.0						
15.0						
2475	2480	. 2485.	249 Jency (MHz	0. 24	95. 2500	
		Frequ				Manain
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBµV	dB	dBµV/m	<u> </u>	dB
		·				
2483.500	Peak	54.48	-5.94	48.54	74.00	-25.46
2483.850	Peak	53.48	-5.94	47.54	74.00	-26.46
_	_					
Freq.	Detector	Peak Actual FS	Duty Cycle	Average Value		Margin
MHz	Mode AV	rs (dBµV/m)	Factor (dB)	(dBuV/m)	Limit@3m) (dBuV/m)	(dB)
	,	()	(42)	(424,7711)	(4241,111)	
2483.500	Average	48.54	-16.83	31.71	54.00	-22.29
2483.850	Average	40.54	-16.83	30.71	54.00	-22.29
2403.000	Average	47.04	-10.03	30.71	54.00	-23.29

Test Olta

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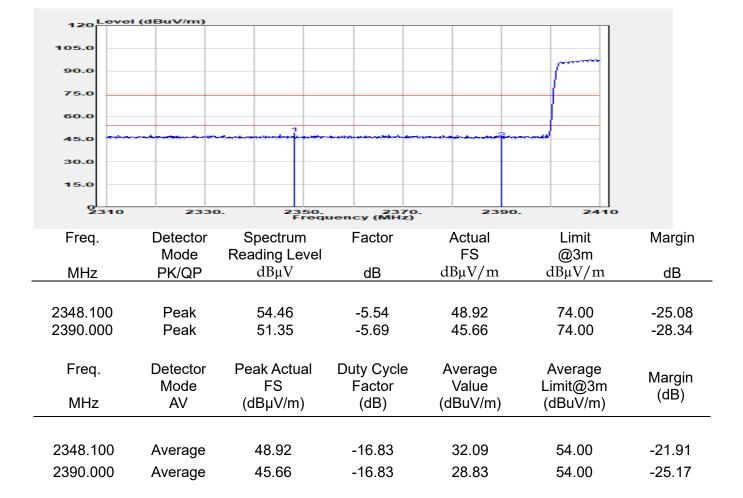
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Report Number	:TERF2207001112E2
Operation Mode	:BT BR HOPPING
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site :SAC D Test Date :2022-09-07 Temp./Humi. :23.5/60 Antenna Pol. :Vertical Engineer :Howard Huang



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Report Number	:TERF2207001112E2
Operation Mode	:BT BR HOPPING
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site	:SAC D
Test Date	:2022-09-07
Temp./Humi.	:23.5/60
Antenna Pol.	:Horizontal
Engineer	:Howard Huang



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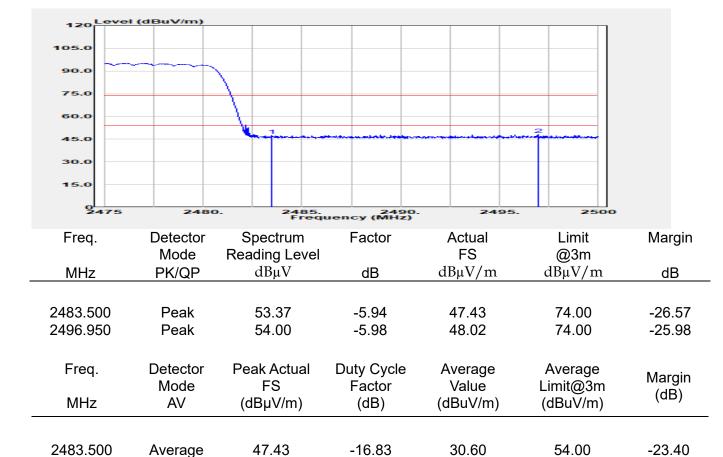
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Report Number	:TERF2207001112E2		
Operation Mode	:BT BR HOPPING		
Test Frequency	:2480 MHz		
Test Mode	:Bandedge		
EUT Pol	:E2 Plane		

Test Site :SAC D Test Date :2022-09-07 Temp./Humi. :23.5/60 Antenna Pol. :Vertical Engineer :Howard Huang



-16.83

31.19

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48.02

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Average

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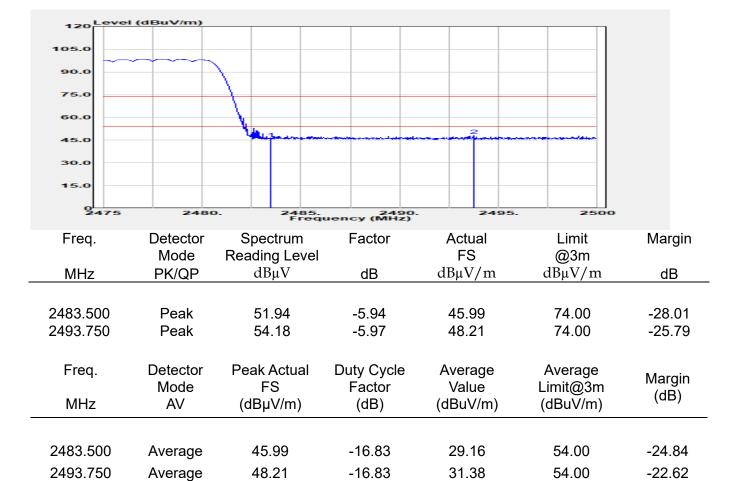
54.00

-22.81



Report Number	:TERF2207001112E2		
Operation Mode	:BT BR HOPPING		
Test Frequency	:2480 MHz		
Test Mode	:Bandedge		
EUT Pol	:E2 Plane		

Test Site	:SAC D
Test Date	:2022-09-07
Temp./Humi.	:23.5/60
Antenna Pol.	:Horizontal
Engineer	:Howard Huang



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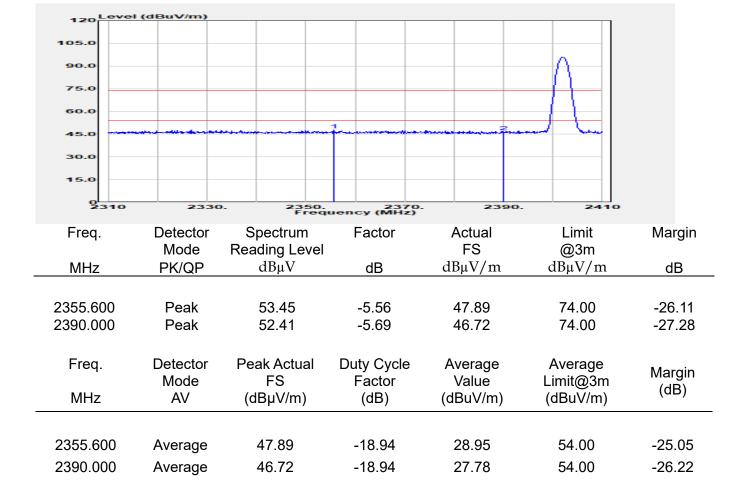
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Report Number	:TERF2207001112E2	Tes
Operation Mode	:BT EDR 3M	Tes
Test Frequency	:2402 MHz	Ter
Test Mode	:Bandedge	Ant
EUT Pol	:E2 Plane	Eng

Test Site :SAC	
Test Date :202	2-09-07
Temp./Humi. :23.5	5/60
Antenna Pol. :Vert	tical
Engineer :Hov	vard Huang



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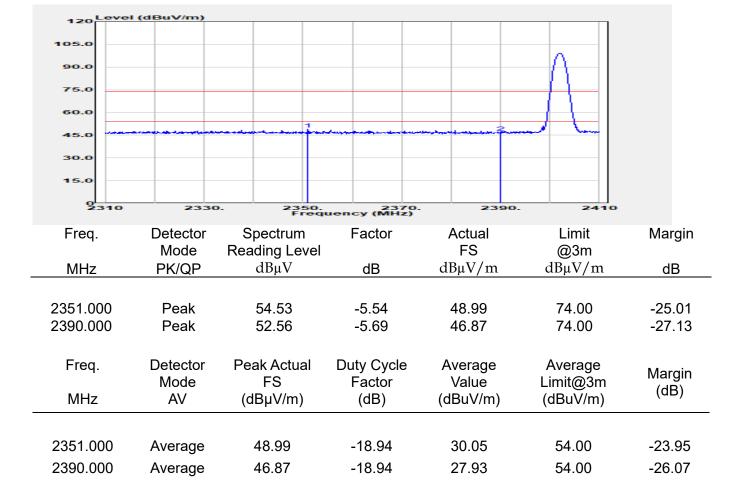
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Report Number	:TERF2207001112E2	Test Sit
Operation Mode	:BT EDR 3M	Test Da
Test Frequency	:2402 MHz	Temp./ł
Test Mode	:Bandedge	Antenna
EUT Pol	:E2 Plane	Engine

Test Site	:SAC D
Test Date	:2022-09-07
Temp./Humi.	:23.5/60
Antenna Pol.	:Horizontal
Engineer	:Howard Huang



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Dement Numerican TEDE0007001110E0

Report Number :TERF2207001112E2			Т	Fest Site	:SAC D	
Operation Mode :BT EDR 3M				Test Date	:2022-09-07	
Test Frequency	:2480 MF	Ηz	Т	emp./Humi.	:23.5/60	
Test Mode	:Bandedo	ne		Antenna Pol.		
EUT Pol	:E2 Plane	5		Engineer	:Howard Huang	
LOTIO			L	Ingineer	. Toward Fidang	
120 Level (dBuV/m)					
105.0						
90.0						
75.0	1					
60.0			2			
45.0					and the day of the second s	
30.0						
15.0						
2475	2480	. 2485. Frequ	249 Jency (MHz)	0. 24	95. 2500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
·	Mode	Reading Level		FS	@3m	-
MHz	PK/QP	dBµV	dB	dBµV/m	dBµV/m	dB
0 400 500	_ .		= 0 (10.10	= 4 00	07.54
2483.500 2489.600	Peak Peak	52.43 53.80	-5.94 -5.96	46.49 47.84	74.00 74.00	-27.51 -26.16
2409.000	reak	55.60	-5.90	47.04	74.00	-20.10
Freq.	Detector	Peak Actual	Duty Cycle	Average	Average	
	Mode	FS	Factor	Value	Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2483.500	Average	46.49	-18.94	27.55	54.00	-26.45
2489.600	Average	47.84	-18.94	28.90	54.00	-25.10
	-					

Test Olta

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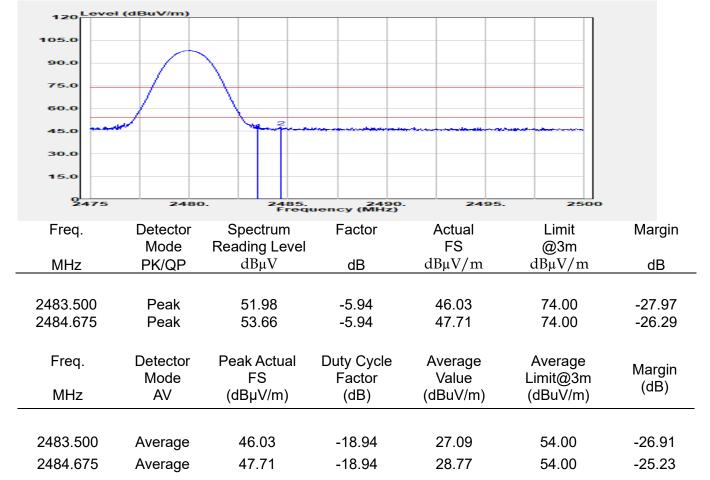
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Report Number	:TERF2207001112E2
Operation Mode	:BT EDR 3M
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

:SAC D
:2022-09-07
:23.5/60
:Horizontal
:Howard Huang



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Report Number	:TERF2207001112E2
Operation Mode	:BT EDR 3M HOPPING
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site	:SAC D
Test Date	:2022-09-07
Temp./Humi.	:23.5/60
Antenna Pol.	:Vertical
Engineer	:Howard Huang



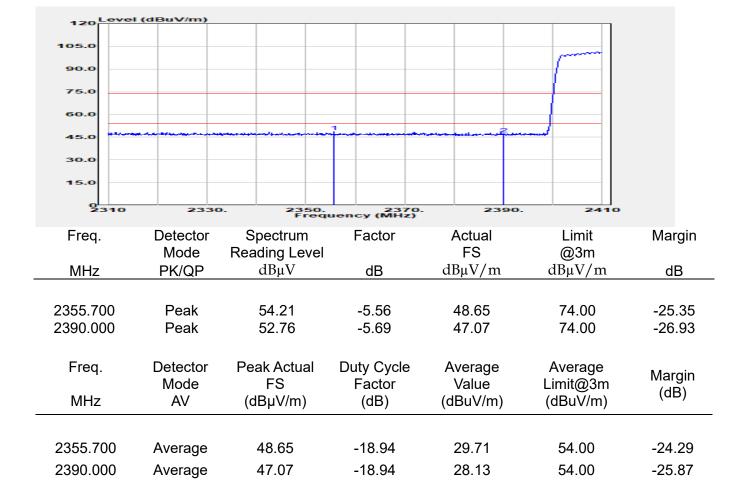
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Report Number	:TERF2207001112E2
Operation Mode	:BT EDR 3M HOPPING
Test Frequency	:2402 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site	:SAC D
Test Date	:2022-09-07
Temp./Humi.	:23.5/60
Antenna Pol.	:Horizontal
Engineer	:Howard Huang



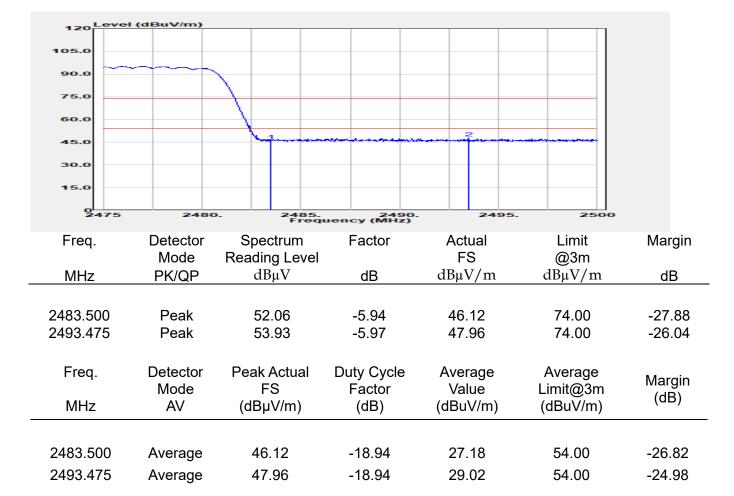
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Report Number	:TERF2207001112E2
Operation Mode	:BT EDR 3M HOPPING
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site	:SAC D
Test Date	:2022-09-07
Temp./Humi.	:23.5/60
Antenna Pol.	:Vertical
Engineer	:Howard Huang



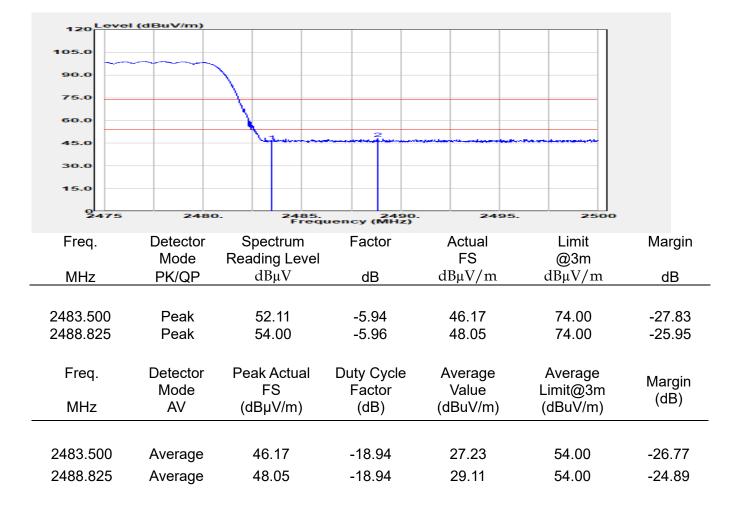
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Report Number	:TERF2207001112E2
Operation Mode	:BT EDR 3M HOPPING
Test Frequency	:2480 MHz
Test Mode	:Bandedge
EUT Pol	:E2 Plane

Test Site	:SAC D
Test Date	:2022-09-07
Temp./Humi.	:23.5/60
Antenna Pol.	:Horizontal
Engineer	:Howard Huang



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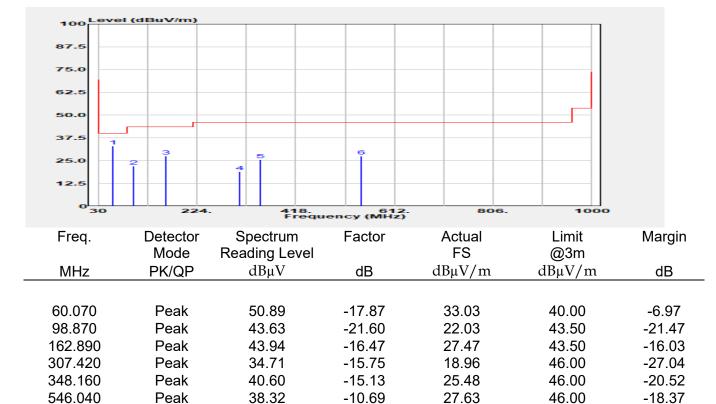
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11.6.4 Radiated Spurious Emission

Report Number	:TERF2207001112E2
Operation Mode	:BT BR
Test Frequency	:2441 MHz
Test Mode	:TX
EUT Pol	:E2 Plane

Test Site	:SAC D
Test Date	:2022-09-27
Temp./Humi.	:23.5/61
Antenna Pol.	:Vertical
Engineer	:Howard Huang



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Dement Numerican TEDE0007001110E0

Report Number :TERF2207001112E2				Test Site	:SAC D	
Operation Mode	:BT BR			Test Date	:2022-09-27	
Test Frequency	:2441 Mł	Ηz		Temp./Humi.	:23.5/61	
Test Mode	:TX			Antenna Pol.	:Horizontal	
EUT Pol	:E2 Plan	е		Engineer	:Howard Huan	g
100 Level (o	iBuV/m)			1		1
87.5						
75.0						
62.5						
50.0						
37.5						
25.0	3	4	6			
12.5	Ĩ					
0 30	224	418	61	12 8	06. 100	
			61 Jency (MH			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS dBuV/m	@3m	
MHz	PK/QP	dBµV	dB	dBµV/m	$dB\mu V/m$	dB
44.550	Peak	40.29	-17.98	22.32	40.00	-17.68
122.150	Peak	39.31	-17.98	22.32	40.00	-17.00
158.040	Peak	43.32	-16.29	20.05	43.50	-23.45
318.090	Peak	41.52	-15.41	26.11	46.00	-19.89
323.910	Peak	41.35	-15.33	26.02	46.00	-19.98

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40.48

Peak

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-10.54

29.94

46.00

-16.06

530.520



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:BT EDR 3M	01112E2		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		
87.5 75.0 62.5 50.0 37.5 1 25.0 12.5	1BuV/m)		6			
Freq.	Detector S	fleque Spectrum	Factor	Actual	Limit	Margin
MHz		ading Level dBμV	dB	FS dBµV/m	@3m	dB
	PN/QP	ασμν	UD	ασμν/ Πι	αδμ ν / Πι	UD
62.010 93.050 159.010 319.060 358.830 543.130	Peak Peak Peak Peak Peak Peak	50.94 44.29 42.81 33.78 40.22 36.78	-18.50 -22.48 -16.27 -15.39 -14.44 -10.76	32.44 21.81 26.55 18.38 25.78 26.02	40.00 43.50 43.50 46.00 46.00 46.00	-7.56 -21.69 -16.95 -27.62 -20.22 -19.98

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Dement Numerican TEDE0007001110E0

Report Number	Report Number :TERF2207001112E2				:SAC D	
Operation Mode	:BT EDR	3M		Test Date	:2022-09-27	
Test Frequency	:2441 MH	Z		Temp./Humi.	:23.5/61	
, ,	Test Mode :TX				:Horizontal	
EUT Pol	:E2 Plane			Engineer	:Howard Huan	a
				Lingineer	. I loward i luan	9
100 Level (d	IBuV/m)					
87.5						
75.0						
62.5						
50.0						
37.5						
25.0	3	4 5				
12.5						
0 30	224.	418. Freque	ency (MH	12. 80 IZ)	100	õo
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP	dBµV	dB	dBµV/m	dBµV/m	dB
63.950	Peak	41.03	-18.55	22.47	40.00	-17.53
101.780	Peak	41.06	-21.20	19.86	43.50	-23.64
158.040	Peak	43.70	-16.29	27.40	43.50	-16.10
320.030	Peak	39.37	-15.38	23.99	46.00	-22.01
355.920	Peak	39.64	-14.62	25.03	46.00	-20.97
540.220	Peak	41.51	-10.79	30.73	46.00	-15.27

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:BT BR	lz		Test Site Test Date Temp./Humi. Antenna Pol. Engineer]
100 Level (dBuV/m)				· · · · · · · · · · · · · · · · · · ·	
87.5						
75.0						
62.5						
50.0		2				
37.5						
25.0						
12.5						
9000	6100	. 11200. Frequ	163 Jency (MH	300. 214 z)	400. 2650	0
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
·	Mode	Reading Level		FS	@3m	C C
MHz	PK/QP	dBµV	dB	dBµV/m	dBμV/m	dB
4804.000	Peak	44.14	-0.29	43.85	74.00	-30.15
7206.000	Peak	44.14	-0.29 6.56	43.85 47.70	74.00 74.00	-26.30
Freq.	Detector	Peak Actual	Duty Cycle			Margin
MHz	Mode AV	FS (dBu)//m)	Factor	Value	Limit@3m	(dB)
	AV	(dBµV/m)	(dB)	(dBuV/m) (dBuV/m)	
4804.000	Average	43.85	-16.83	27.02	54.00	-26.98
7206.000	Average Average	43.65 47.70	-16.83 -16.83	30.87	54.00 54.00	-20.90
1200.000	Average	41.10	-10.00	50.07	54.00	-20.10

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:BT BR	łz		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		J
100 Level (dBuV/m)					
87.5						
75.0						
62.5						
50.0	1	2				
37.5						
25.0						
12.5						
9000	6100	. 11200. Frequ	163 Jency (MH	300. 21. z)	400. 2650	0
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP	Reading Level dBµV	dB	FS dBµV/m	@3m 1 dBµV/m	dB
		αDμ V	UD	α <i>D</i> μ <i>V</i> / Π		
4804.000	Peak	45.88	-0.29	45.59	74.00	-28.41
7206.000	Peak	39.26	6.56	45.83	74.00	-28.17
Freq.	Detector	Peak Actual	Duty Cycle	e Average	Average	
1109.	Mode	FS	Factor	Value	Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m) (dBuV/m)	(dB)
4804.000	Average	45.59	-16.83	28.76	54.00	-25.24
7206.000	Average	45.83	-16.83	29.00	54.00	-25.00

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Dement Numerican TEDE0007001110E0

Report Number	Report Number :TERF2207001112E2				:SAC D	
Operation Mod	e :BT BR		T	est Date	:2022-09-12	
Test Frequency	/ :2441 MH	lz	Т	ēmp./Humi.	:23.1/58	
Test Mode	:TX		A	Antenna Pol.	:Vertical	
EUT Pol	:E2 Plane	•	E	Engineer	:Howard Huang	
			_			
100 Level	(dBuV/m)					
87.5						
75.0						
62.5						
50.0	1	2				
37.5						
25.0						
12.5						
9000	6100	. 11200. Frequ	1630 Jency (MHz)	0. 214	00. 26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m	dB
	PN/QP	ασμν	uБ	α <i>D</i> μ v / III	α μν/ Π	UD
4882.000	Peak	46.95	-0.40	46.55	74.00	-27.45
7323.000	Peak	41.90	6.94	48.84	74.00	-25.16
F ire e	Detector	De als A atual	Duty Ovala	A	A	
Freq.	Detector Mode	Peak Actual FS	Duty Cycle Factor	Average Value	Average Limit@3m	Margin
Freq. MHz	Detector Mode AV	Peak Actual FS (dBµV/m)	Duty Cycle Factor (dB)	Average Value (dBuV/m)	Limit@3m	Margin (dB)
	Mode	FS	Factor	Value	Limit@3m	
	Mode	FS	Factor	Value	Limit@3m	

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Top Converse (CBavVm) Conver	Report Number Operation Mode Test Frequency Test Mode EUT Pol	:BT BR	lz		Test Site Test Date Temp./Humi. Antenna Pol. Engineer]
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	100 Level (d	BuV/m)				· · · · · · · · · · · · · · · · · · ·	
Image: Section of the	87.5						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	75.0						
37.925.01111112.5111111Freq.Detector Mode PK/QPSpectrum dB μV Factor dBActual dB $\mu V/m$ Limit $B_{B} V/m$ Margin $B_{B} V/m$ 4882.000 7323.000Peak Peak45.93 40.95-0.40 6.9445.53 47.8974.00 74.00-28.47 -26.11Freq.Detector Mode Reading Level dB μV Duty Cycle FS (dB $\mu V/m$)Average Value (dB)Average (dB $\nu V/m$)Margin (dB)4882.000Average AV45.53 	62.5						
Zzz.Zzz.Zzz.Zzz.Zzz.Zzz.Freq.Detector ModeSpectrum Reading Level dB μV Factor dBActual FSLimit @3m dB $\mu V/m$ Margin @3m4882.000 7323.000Peak Peak45.93 40.95-0.40 6.9445.53 47.8974.00 74.00-28.47 -26.11Freq.Detector Mode AVPeak Actual (dB $\mu V/m$)Duty Cycle (dB)Average Value (dB $\nu V/m$)Average (dB $\nu V/m$)Margin (dB)4882.000Average AV45.53 (dB $\mu V/m$)74.00 (dB)-28.47 (dB $\nu V/m$)-26.11Freq.Detector Mode AVPeak Actual (dB $\mu V/m$)Duty Cycle (dB)Average (dB $\nu V/m$)Average (dB $\nu V/m$)Margin (dB $\nu V/m$)4882.000Average 45.5345.53 (dB $\mu V/m$)-16.83 28.7028.7054.00 54.00-25.30	50.0	1	2				
Image: state of the state o	37.5						
Freq.Detector ModeSpectrum Reading Level dBµVFactor dBActual FS dBµV/mLimit @3m dBMargin @3m4882.000Peak Peak45.93 40.95-0.40 6.9445.53 47.8974.00 74.00-28.47 -26.11Freq.Detector Mode (dBµV/m)Peak (dBµV/m)Duty Cycle (dB)Average (dBuV/m)Margin (dB)4882.000Average (dBµV/m)Peak 40.95Average (dB)Average (dBuV/m)Average (dB)Margin (dB)4882.000Average 40.95Peak Actual (dB)Duty Cycle (dBuV/m)Average (dBuV/m)Margin (dB)Margin (dB)4882.000Average 40.9545.53-16.8328.7054.00-25.30	25.0						
Freq.Detector Mode PK/QPSpectrum Reading Level dBµVFactor dBActual FS dBµV/mLimit @3m dBµV/mMargin dB4882.000Peak Peak45.93 40.95-0.40 6.9445.53 47.8974.00 74.00-28.47 -26.114882.000Peak Peak40.95 40.956.9447.89 47.8974.00 74.00-28.47 -26.11Freq.Detector Mode MHzPeak Actual FS (dBµV/m)Duty Cycle Factor (dB)Average Value (dBuV/m)Average (dBuV/m)Margin (dB)4882.000Average 45.5345.53 -16.83-16.83 28.7028.7054.00 54.00-25.30	12.5						
Mode MHzReading Level $dB\mu V$ FS dB @3m $dB\mu V/m$ O $dB\mu V/m$ 4882.000 7323.000Peak45.93 40.95-0.40 6.9445.53 47.8974.00 74.00-28.47 -26.11Freq. Mode MHzDetector Mode AVPeak Actual FS (dB $\mu V/m$)Duty Cycle Factor (dB)Average Value (dB $\nu V/m$)Average (dB $\nu V/m$)Margin (dB)4882.000Average 45.5345.53 (dB $\mu V/m$)-16.83 28.7028.7054.00-25.30	9000	6100	. 11200. Frequ	163 Jency (MH	214 z)	400. 2650	0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
4882.000 Peak 45.93 -0.40 45.53 74.00 -28.47 7323.000 Peak 40.95 6.94 47.89 74.00 -26.11 Freq. Detector Peak Actual Duty Cycle Average Average Average Margin (dB) MHz AV (dBµV/m) (dB) (dBuV/m) (dBuV/m) Constant Margin (dB) 4882.000 Average 45.53 -16.83 28.70 54.00 -25.30			Ŷ			<u> </u>	-
7323.000 Peak 40.95 6.94 47.89 74.00 -26.11 Freq. Detector Peak Actual Duty Cycle Average Average Average MHz AV Peak Actual Duty Cycle Average Average Margin 4882.000 Average 45.53 -16.83 28.70 54.00 -25.30	MHz	PK/QP	dBµV	dB	dBµV/m	dBμV/m	dB
7323.000 Peak 40.95 6.94 47.89 74.00 -26.11 Freq. Detector Peak Actual Duty Cycle Average Average Average MHz AV Peak Actual Duty Cycle Average Average Margin 4882.000 Average 45.53 -16.83 28.70 54.00 -25.30	4882 000	Poak	45.02	0.40	15 52	74.00	20 17
Freq.Detector Mode AVPeak Actual FS (dBµV/m)Duty Cycle Factor (dB)Average Value (dBuV/m)Average Limit@3m 							-
Mode MHzFS (dBµV/m)Factor (dB)Value (dBuV/m)Limit@3m (dBuV/m)Margin (dB)4882.000Average45.53-16.8328.7054.00-25.30							
Mode FS Factor Value Limit@3m (dB) MHz AV (dBµV/m) (dB) (dBuV/m) (dBuV/m) (dB) 4882.000 Average 45.53 -16.83 28.70 54.00 -25.30	Freq.						Margin
4882.000 Average 45.53 -16.83 28.70 54.00 -25.30	MНz					<u> </u>	•
				(ub)			
	4882 000	Average	45 53	-16 83	28 70	54 00	-25 30
		•					

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:BT BR	łz		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		
100 Level (dBuV/m)					
87.5						
75.0						
62.5						
50.0	1	2				
37.5						
25.0						
12.5						
1000	6100	. 11200. Frequ	163 Jency (MH	214 z)	400. 26500	•
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBμV	dB	dBµV/m	•	dB
4960.000 7440.000	Peak Peak	42.75 38.74	0.50 6.71	43.24 45.44	74.00 74.00	-30.76 -28.56
7440.000	Реак	38.74	0.71	45.44	74.00	-28.50
Freq.	Detector	Peak Actual	Duty Cycle	e Average	Average	N.4 - marine
	Mode	FS	Factor	Value	Limit@3m	Margin (dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m) (dBuV/m)	
4960.000	Average	43.24	-16.83	26.41	54.00	-27.59
7440.000	Average	45.44	-16.83	28.61	54.00	-25.39

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:BT BR	lz		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		1
100 Level (dBuV/m)					
87.5						
75.0						
62.5	_					
50.0		2				
37.5						
25.0						
12.5						
9000	6100	. 11200. Frequ	163 Jency (MH	300. 214 z)	400. 2650	0
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP	dBµV	dB	dBµV/m	u dBµV/m	dB
4000 000	Deels	40.07	0.50	40.57	74.00	24.42
4960.000 7440.000	Peak Peak	42.07 39.70	0.50 6.71	42.57 46.41	74.00 74.00	-31.43 -27.59
7440.000	T Cak	00.70	0.71	-01	74.00	-21.00
Freq.	Detector	Peak Actual	Duty Cycle	e Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	(dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m) (dBuV/m)	(/
1000.000		10 57	10.00	05 5 4	54.00	~~~~
4960.000	Average	42.57	-16.83	25.74	54.00	-28.26
7440.000	Average	46.41	-16.83	29.58	54.00	-24.42

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	e :BT EDR	3M Iz		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		
100 Level (dBuV/m)				· · · · · · · · · · · · · · · · · · ·	
87.5						
75.0						
62.5						
50.0		2				
37.5		Ĩ –				
25.0						
12.5						
9	6100	. 11200. Frequ	163 Jency (MH	214 z)	400. 26500	>
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
1109.	Mode	Reading Level	1 40101	FS	@3m	Wargin
MHz	PK/QP	dBµV	dB	dBµV/m	dBμV/m	dB
4804.000	Peak	43.67 38.33	-0.29 6.56	43.38	74.00 74.00	-30.62 -29.10
7206.000	Peak	38.33	0.00	44.90	74.00	-29.10
Freq.	Detector	Peak Actual	Duty Cycle	e Average	Average	N
	Mode	FS	Factor	Value	Limit@3m	Margin (dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m) (dBuV/m)	(dD)
4804.000	Average	43.38	-18.94	24.44	54.00	-29.56
7206.000	Average	44.90	-18.94	25.96	54.00	-28.04

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	BT EDR	3M Iz		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		
100 Level (dBuV/m)				· · · · · · · · · · · · · · · · · · ·	
87.5						
75.0						
62.5						
50.0		2				
37.5						
25.0						
12.5						
9000	6100	. 11200. Frequ	163 Jency (MH	300. 21- 2)	400. 26500	D
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP	dBμV	dB	dBµV/m	dBµV/m	dB
4004.000	Deale	40.05	0.00	40.07	74.00	00.00
4804.000 7206.000	Peak Peak	43.95 38.98	-0.29 6.56	43.67 45.54	74.00 74.00	-30.33 -28.46
7200.000	T Cak	00.00	0.00	-0.0-	74.00	-20.40
Freq.	Detector	Peak Actual	Duty Cycle	e Average	Average	Margin
	Mode	FS	Factor	Value	Limit@3m	(dB)
MHz	AV	(dBµV/m)	(dB)	(dBuV/m) (dBuV/m)	· /
4904 000	August	40.07	10.04	04 70	F 4 00	20.07
4804.000	Average	43.67	-18.94	24.73	54.00	-29.27
7206.000	Average	45.54	-18.94	26.60	54.00	-27.40

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100 Level (dBuV/m)				· · · · · · · · · · · · · · · · · · ·	
87.5						
75.0						
62.5						
50.0	1	2				
37.5		Ī			I	
25.0						
12.5						
9000	6100	. 11200. Frequ	163 Jency (MH	214 z)	400. 26500	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	0
MHz	PK/QP	dBµV	dB	dBµV/m	dBμV/m	dB
4882.000	Peak	44.65	-0.40	44.25	74.00	-29.75
7323.000	Peak	37.65	6.94	44.59	74.00	-29.41
Freq.	Detector	Peak Actual	Duty Cycle			Margin
MHz	Mode AV	FS (dBµV/m)	Factor (dB)	Value (dBuV/m)	Limit@3m) (dBuV/m)	(dB)
		、 、 、 /	~ /	`	, , , ,	
4882.000	Average	44.25	-18.94	25.31	54.00	-28.69
7323.000	Average	44.59	-18.94	25.65	54.00	-28.35

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	e :BT EDR	3M Iz		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		9
100 Level	(dBuV/m)				· · · · · · · · · · · · · · · · · · ·	
87.5						
75.0						
62.5						
50.0						
37.5		2				
25.0						
12.5						
9000	6100	. 11200.	163 Jency (MH	00. 214	400. 2650	00
From	Detector		Factor	Actual	Limit	Margin
Freq.	Mode	Spectrum Reading Level	Factor	FS	@3m	Margin
MHz	PK/QP	dBµV	dB	dBµV/m	0	dB
4882.000	Peak	43.88	-0.40	43.48	74.00	-30.52
7323.000	Peak	37.40	6.94	44.33	74.00	-29.67
Freq.	Detector	Peak Actual	Duty Cycle	e Average	Average	
ricq.	Mode	FS	Factor	Value	Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	<u> </u>	(dB)
4882.000	Average	43.48	-18.94	24.54	54.00	-29.46
7323.000	Average	44.33	-18.94	25.39	54.00	-28.61

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	e :BT EDR	3M Iz		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		
100 Level ((dBuV/m)				· · · · · · · · · · · · · · · · · · ·	
87.5						
75.0						
62.5						
50.0		2				
37.5	1					
25.0						
12.5						
9000	6100	. 11200.	163 Jency (MH	00. 214	400. 26500	
Free	Detector	-		-	Lineit	Marain
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP	dBµV	dB	dBµV/m	•	dB
4960.000	Peak	41.68	0.50	42.18	74.00	-31.82
7440.000	Peak	39.41	6.71	46.12	74.00	-27.88
Freq.	Detector	Peak Actual	Duty Cycle	e Average	Average	
1104.	Mode	FS	Factor	Value	Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m	<u> </u>	(dB)
4960.000	Average	42.18	-18.94	23.24	54.00	-30.76
7440.000	Average	46.12	-18.94	27.18	54.00	-26.82

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	e :BT EDR	3M Iz		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		I
100 Level ((dBuV/m)					
87.5						
75.0						
62.5						
50.0		2				
37.5	1					
25.0						
12.5						
9000	6100	. 11200.	163 Jency (MH	00. 214	400. 2650	0
Frog	Detector	Spectrum	Factor	Actual	Limit	Margin
Freq.	Mode	Reading Level	Factor	FS	@3m	Margin
MHz	PK/QP	dBμV	dB	dBµV/m	<u> </u>	dB
4960.000	Peak	40.74	0.50	41.24	74.00	-32.76
7440.000	Peak	38.21	6.71	44.91	74.00	-29.09
Freq.	Detector	Peak Actual	Duty Cycle	e Average	Average	
1109.	Mode	FS	Factor	Value	Limit@3m	Margin
MHz	AV	(dBµV/m)	(dB)	(dBuV/m)	<u> </u>	(dB)
4960.000	Average	41.24	-18.94	22.30	54.00	-31.70
7440.000	Average	44.91	-18.94	25.97	54.00	-28.03

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12 FREQUENCY SEPARATION

Standard Applicable 12.1

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

12.2 Test Setup



12.3 **Measurement Procedure**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- Set center frequency of spectrum analyzer = middle of hopping channel.
- 5. Set the RBW approximately 30% of the channel spacing, $VBW \ge RBW$.
- 6. Adjust Span to Wide enough to capture the peaks of two adjacent channels.
- 7. Sweep = auto.
- 8. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

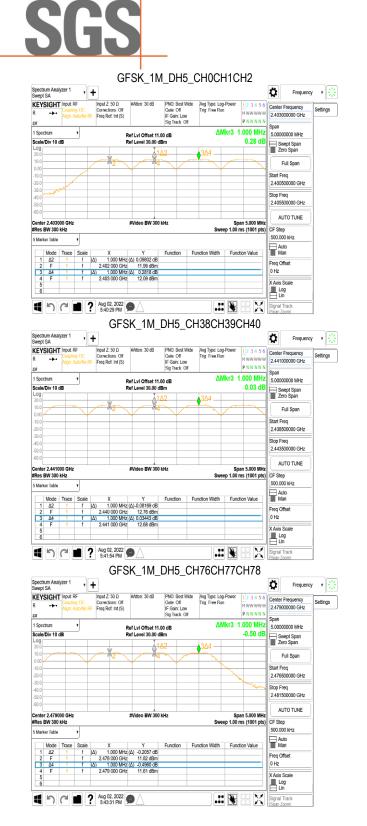
12.4 Measurement Result

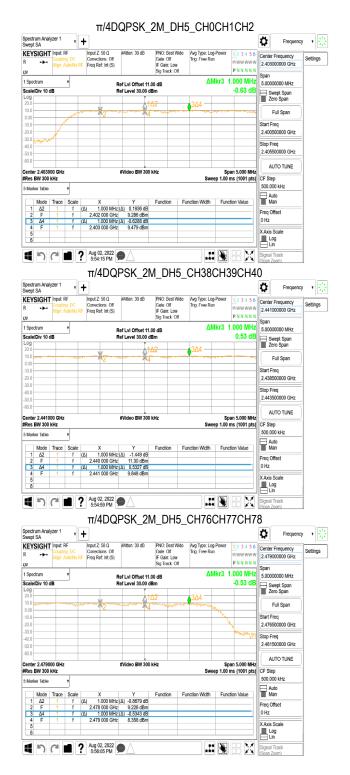
Channel separation (MHz)	Limit	Result
1	≧25 kHz or 2/3 times 20dB bandwidth	PASS

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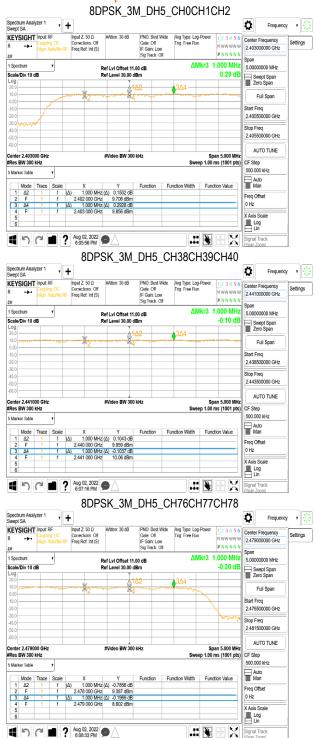
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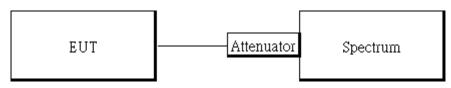


13 NUMBER OF HOPPING FREQUENCY

Standard Applicable 13.1

Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

13.2 Test Setup



13.3 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2013.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 5. Set the spectrum analyzer as RBW=430kHz, VBW=1.5MHz., Detector = Peak
- 6. Max hold, view and count how many channel in the band.

Measurement Result 13.4

Tabular Data of Total Channel Number

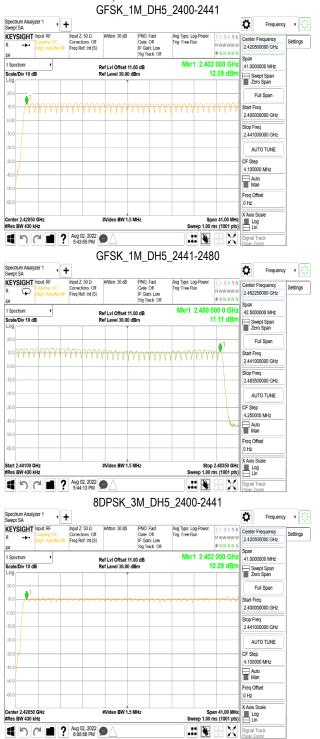
	Channel Number	Limit
2.4 GHz – 2.441 GHz	40	
2.441 GHz – 2.4835 GHz	39	>15
2.4 GHz ~2.4835 GHz	(40+39) = 79	

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8DPSK_3M_DH5_2441-2480 Spectrum Analyzer 1 Swept SA - 25 • + Ö Frequency Input Z: 50 Ω Corrections: Off Froq Rof: Int (S) PNO: Fast Gale: Off IF Gain: Low Sig Track: Of Avg Typo: Log-Po Trig: Free Run KEYSIGHT Input RF litten: 30 dF Center F Settings Ģ 2 462250000 GH PNNNN Mkr1 2.480 000 0 GHz 42.5000000 MHz 1 Spectrum Ref Lvi Offset 11.00 dB Ref Level 30.00 dBm Scale/Div 10 dB 9.65 dB Swept Span Zero Span Full Span ٥ Start Freq 2.441000000 GHz Stop Freq 2.483500000 GHz AUTO TUNE CF Step 4.250000 MHz Auto Man Freq Offset 0 Hz X Axis Sca Stop 2.48350 GHz Sweep 1.00 ms (1001 pts) Start 2.44100 GHz #Res BW 430 kHz 4 5 C 1 2 Aug 02, 2022 Signal Tra

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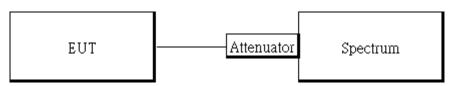


14 TIME OF OCCUPANCY (DWELL TIME)

Standard Applicable 14.1

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

14.2 Test Setup



14.3 **Measurement Procedure**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10:2015.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set center frequency of spectrum analyzer = operating frequency.

5. Set the spectrum analyzer as RBW, VBW=1MHz, 3MHz, Span = 0Hz, Detector = Peak, Adjust Sweep = $2 \sim 8 \text{ms}$.

6. Repeat above procedures until all frequency of the interest measured were complete.

Formula Deduced: time occupancy of one time slot X Hopping rate / total slot in one channel / total channel that hops X period of working channels.

Where, standard hopping rate is 1600 hops/s, slot in one channel for DH1, DH3, and DH5 is 2, 4, and 6, respectively.

DH1 consists of single time slot of the uplink, and one slot of the downlink Total Slot: 2 DH3 consists of three time slot of the uplink, and one slot of the downlink. Total Slot: 4 DH5 consists of five time slot of the uplink, and one slot of the downlink. Total Slot: 6

Note: the result of the complete test default channel at 1Mbps is recorded on the test report, 2Mbps, and 3Mbps only records the measurement result at middle channel that reveals no much deviation.

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Measurement Result 14.4

GFSK (1Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
	DH1	121.60	400ms	3.00
Mid	DH3	260.80	400ms	1.00
	DH5	307.20	400ms	1.00

π/4 DQPSK (2Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
	2DH1	123.20	400ms	3.00
Mid	2DH3	262.40	400ms	1.00
	2DH5	307.20	400ms	1.00

8-DPSK (3Mbps)

Channel	PACKET TYPE	Measurement Result (ms)	Limit (ms)	VBW setting (kHz)
	3DH1	124.80	400ms	3.00
Mid	3DH3	262.40	400ms	1.00
	3DH5	308.80	400ms	1.00

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GFSK (1Mbps):

CH Mid	DH1 time slot	=	0.380 *	(1600/2/79)	*	31.6 =	121.60 (ms)
	DH3 time slot	=	1.630 *	(1600/4/79)	*	31.6 =	260.80 (ms)
	DH5 time slot	=	2.880 *	(1600/6/79)	*	31.6 =	307.20 (ms)

$\pi/4$ -DQPSK (2Mbps):

CH Mid	2DH1 time slot =	0.385 *	(1600/2/79)	*	31.6 =	123.20 (ms)
	2DH3 time slot =	1.640 *	(1600/4/79)	*	31.6 =	262.40 (ms)
	2DH5 time slot $=$	2.880 *	(1600/6/79)	*	31.6 =	307.20 (ms)

8-DPSK (3Mbps):

CH Mid	3DH1 time slot =	0.390 *	(1600/2/79)	*	31.6 =	124.80 (ms)
	3DH3 time slot =	1.640 *	(1600/4/79)	*	31.6 =	262.40 (ms)
	3DH5 time slot =	2.895 *	(1600/6/79)	*	31.6 =	308.80 (ms)

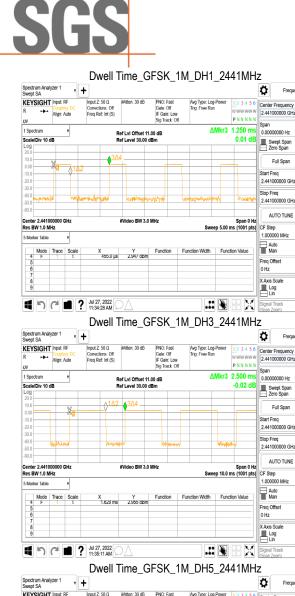
A period time = 0.4 (s) * 79 = 31.6 (s)

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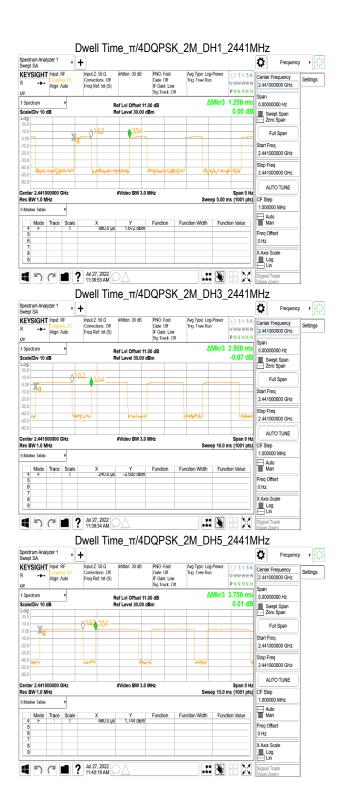
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15 ANTENNA REQUIREMENT

15.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

15.2 Antenna Connected Construction

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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